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DRAFTEMAN		

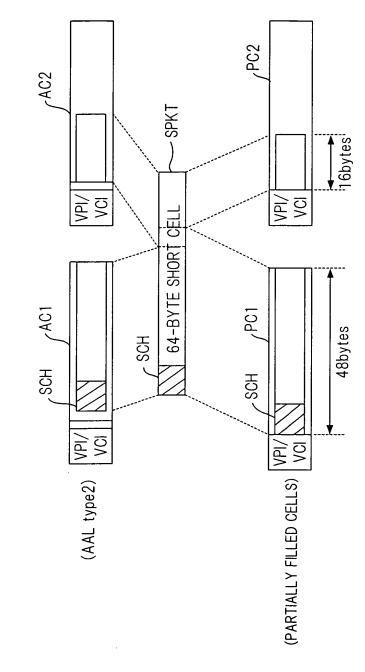


FIG 2

- SPKT

64-BYTE \$HORT CELL

, PC2

PC1

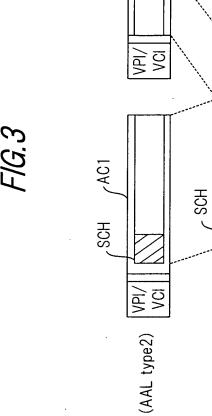
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(PARTIALLY FILLED CELLS) VOI

32bytes

32bytes

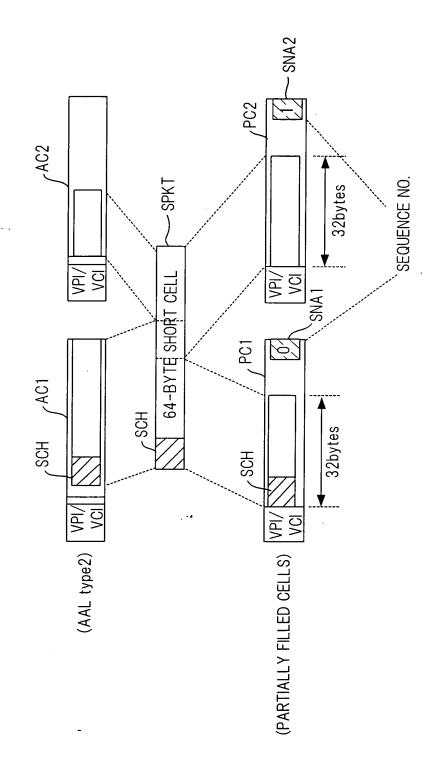


AC2

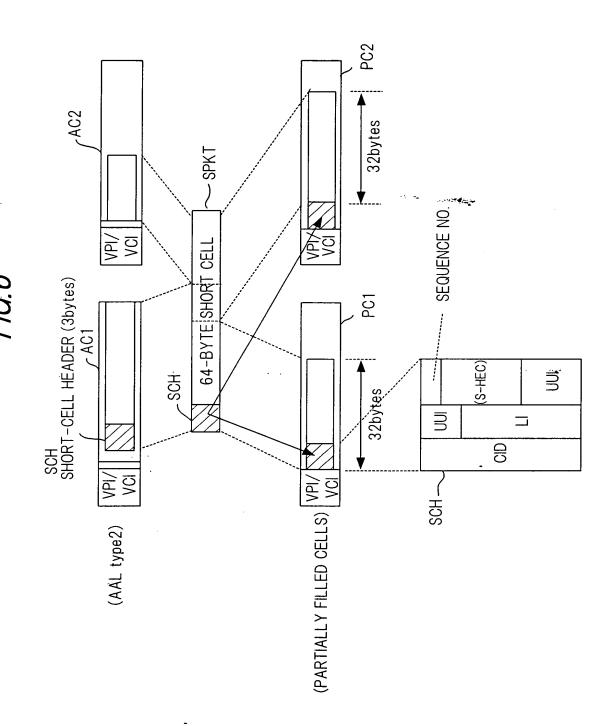
FIG.4

			· · · · · · · · · · · · · · · · · · ·
LENGTH OF SHORT PACKET (byte)	LI[(LENGTH OF SHORT PACKET) - 4]	NUMBER OF BYTES OF FIRST CELL B1	NUMBER OF BYTES OF SECOND CELL B2
4	0	4	0
5	1	5	0
•		•	0
47	43	47	0
48	44	48	0
49	45	24	25
50	46	25	25
51	47	25	26
52	48	26	26
53	49	26	27
54	50	27	27
55	51	27	28
56	52	28	28
57	53	28	29
58	54	29	29
59	55	29	30
60	56	30	30
61	57	30	31
62	58	31	31
63	59	31	32
64	60	32	. 32
65	61	32	33
66	62	33	33
67	63	33	34

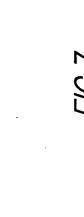
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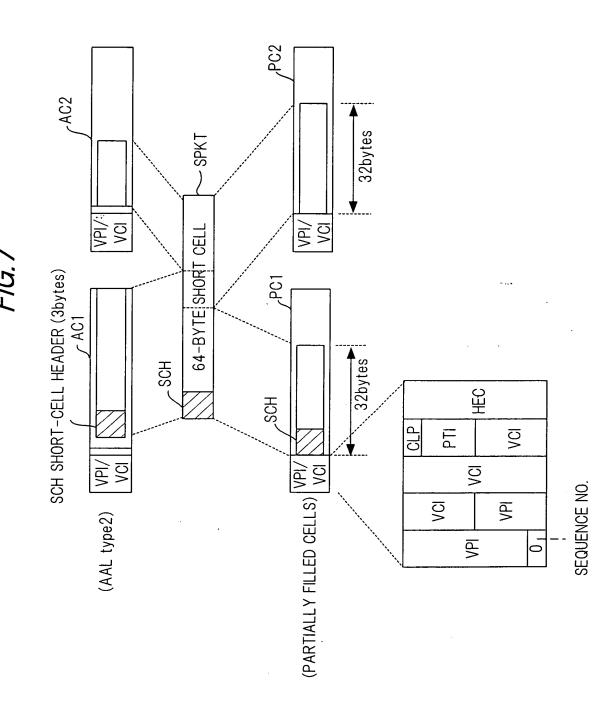


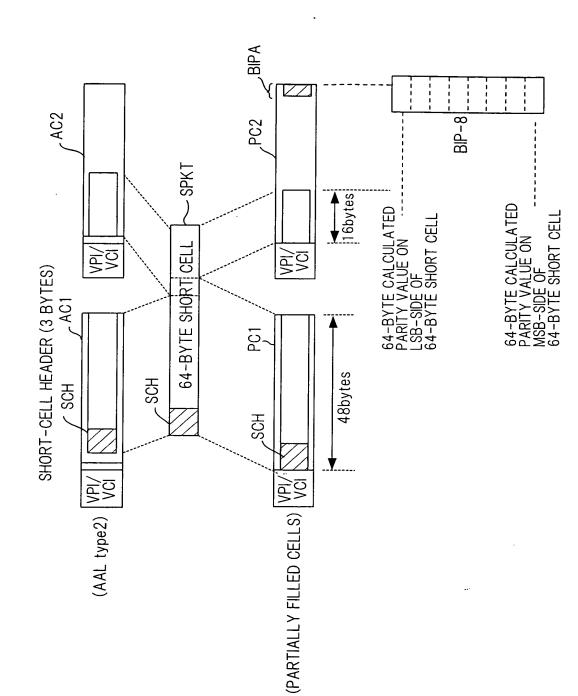
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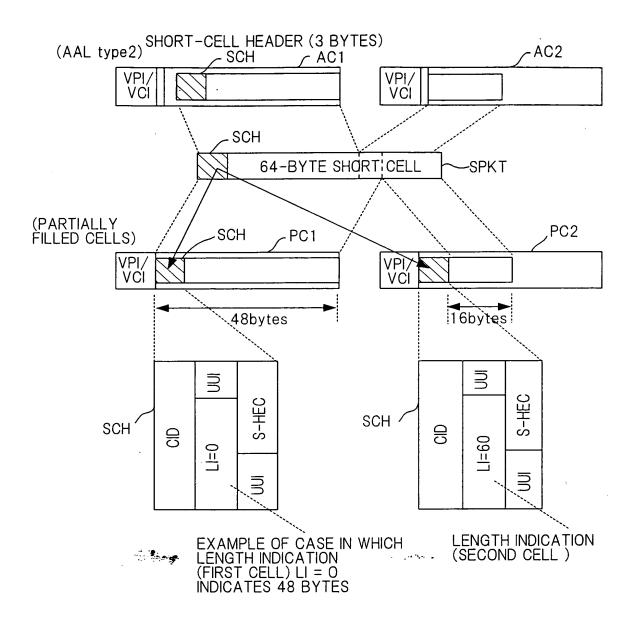






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9/58

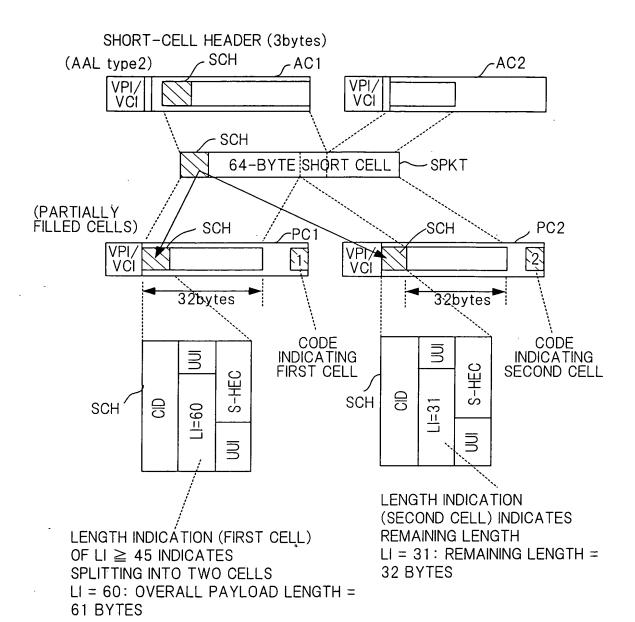


LENGTH (BYTES) OF ARRIVING SHORT PACKET	ARRIVING CELL LI (= LENGTH - 4)	SIGNIFICANT -DATA LENGTH OF FIRST CELL	FIRST-CELL LI (BINARY NOTATION)	SIGNIFICANT -DATA LENGTH OF SECOND CELL	SECOND- CELL LI (BINARY NOTATION)
4 (USE PROHIBITED)	0	-	- (USE PROHIBITED)	_	-
5	1	5	000001	-	_
6	2	6	000010	-	_
7	3	7	000011	_	· -
8	4	8	000100	_	-
9	5	9	000101	_	_
10	6	10	000110	_	_
11	7	11	000111	-	_
12	8	12	001000	_	_
13	9	13	001001	_	
14	10	14	001010	-	-
15	11	15	001011	_	-
16	12	16	001100	_	
17	13	17	001101	-	-
18	14	18	001110	-	-
19	15	19	001111	_	-
20	16	20	010000	-	_
21	17	21	010001	_	-
22	18	22	010010	_	_
23	19	23	010011	-	
24	20	24	010100		_
25	21	25	010101		
26	22	26	010110	-	· - <u>-</u>
27	23	27	010111		
28	24	28	011000	_	-
29	25	29	011001	-	
30	26	30	011010		
31	27	31	011011		
32	28	32	011100		
33	29	33	011101		
34	30	34	011110	_	_
35	31	35	011111		_
36	32	36	100000		
37	33	37	100001	-	
38	34	38	100010	-	
39	35	- 39	100011	-	
40	36	40	100100	-	

LENGTH (BYTES) OF ARRIVING SHORT PACKET	ARRIVING CELL LI (= LENGTH - 4)	SIGNIFICANT -DATA LENGTH OF FIRST CELL	FIRST-CELL LI (BINARY NOTATION)	SIGNIFICANT -DATA LENGTH OF SECOND CELL	SECOND- CELL LI (BINARY NOTATION)
41	37	41	100101	_	_
42	38	42	100110	-	_
43	39	43	100111	_	_
44	40	44	101000	_	_
45	41	45	101001	-	_
46	42	46	101010	_	_
47	43	47	101011	_	_
48	44	48	101100	-	_
49	45	48	000000	1 .	101101
50	46	48	000000	2	101110
51	47	48	000000	3	101111
52	48	48	000000	4	110000
53	49	48	000000	5	110001
54	50	48	000000	6	110010
55	51	48	000000	7	110011
56	52	48	000000	8	110100
57	53	48	000000	9	110101
58	54	48	000000	10	110110
59	55	48	000000	11	110111
60	56	48	000000	12	111000
61	57	48	000000	1:3	111001
62	58	48	000000	14	111010
63	59	48	000000	15	111011
64	60	48	000000	16	111100
65	61	48	000000	17	111101
66	62	48	000000	18	111110
67	63	48	000000	19	111111

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12/58

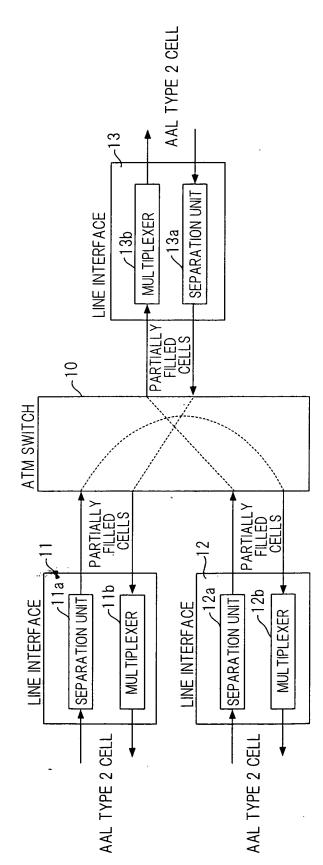


LENGTH OF ARRIVING SHORT PACKET	LI OF ARRIVING CELL	SIGNIFICANT -DATA LENGTH OF FIRST CELL	FIRST- CELL LI	SIGNIFICANT -DATA LENGTH OF SECOND CELL	SECOND- CELL LI
r .					
4	0	4	0	-	
5	11	5	1	_	
6	2	6	2	-	_
7	3	7	3	-	_
8	4	8	4	_	_
9	5	9	5	-	_
10	6	10	6	_	-
11	7	11	7	_	_
12	8	1_2	. 8	_	-
13	9	13	9	-	_
14	10	14	10	_	-
15	11	15	11	_	_
16	12	16	12	_	_
17	13	17	13	-	_
18	14	18	14	-	_
19	15	19	15	_	_
20	16	20	16	_	-
21	17	21	17	-	-
22	18	22	18	-	
23	19	23	19	-	_
24	20	24	20		_

LENGTH OF ARRIVING SHORT PACKET	LI OF ARRIVING CELL	SIGNIFICANT -DATA LENGTH OF FIRST CELL	FIRST- CELL LI	SIGNIFICANT -DATA LENGTH OF SECOND CELL	SECOND- CELL LI
25	21	25	21	_	
26	22	26	22		
27	23	27	23		
28	24	28	24		<u> </u>
29	<u>24</u> 25	29	25		
30		30	26	_	
31	<u>26</u> 27	31	27		
32	28	32	28		
33	<u>28</u> 29	33	29	_	
34	<u>29</u> 30	34	30		
35	31	· 35	31	_	_
36	32	36	32	<u> </u>	
37	33	37	33	_	_
38	34	38	34		
39	35	39	35	_	_
40	36	40	36	_	_
41	37	41	3.7.	_	-
42	38	42	38	-	_
43	39	43	39	-	_
44	40	44	40	_	_
45	41	45	41	_	_
46	42	46	42	_	_
47	43	47	43	-	_
48	44	48	44	_	_
49	45	32	45	17	16
50	46	32	46	18	17
51	47	32	47	19	18
52	48 ·	32	48	20	19
53	49	32	49	21	20
54	50	32	50	22	21
55	51	32	51	23	22
56	52	32	52	24	23
57	53	32	53	25	24
58	54	32	54	26	25
59	55	32	55	27	26
60	56	32	<u>56</u>	28	27
61	57	32	57	29	28
62	58	32	58	30	29
63	59	32	59	31	30
64	60	- 32	60	32	31
65	61	32	61	33	32
66	62	32	62	34	33
67	63	32	63	35	34

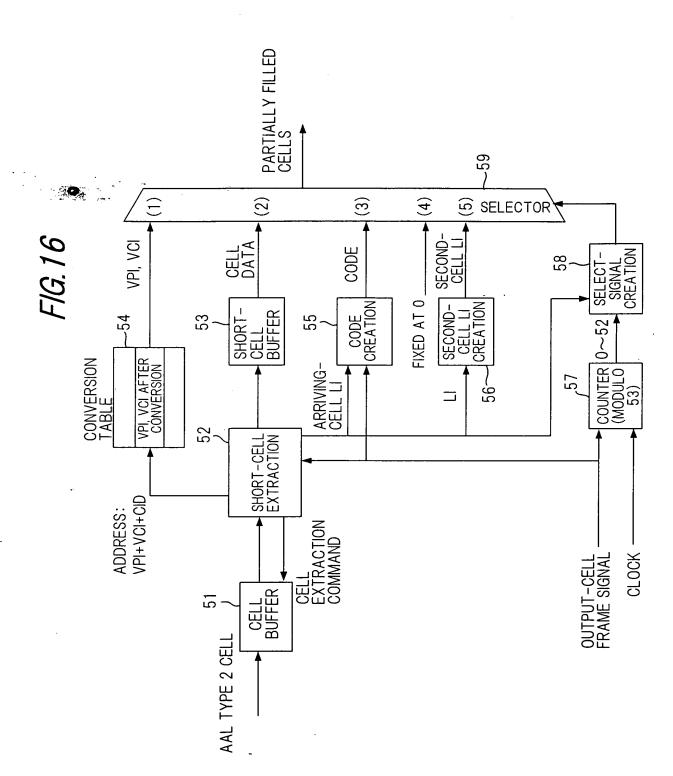
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15/58



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16/58



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17/58

FIG. 17A

WHEN LI < 45 HOLDS

COUNT	SELECT SIGNAL
0~4	SELECT (1)
5~(LI+8)	SELECT (2)
(LI+9)~52	SELECT (4)

FIG. 17B

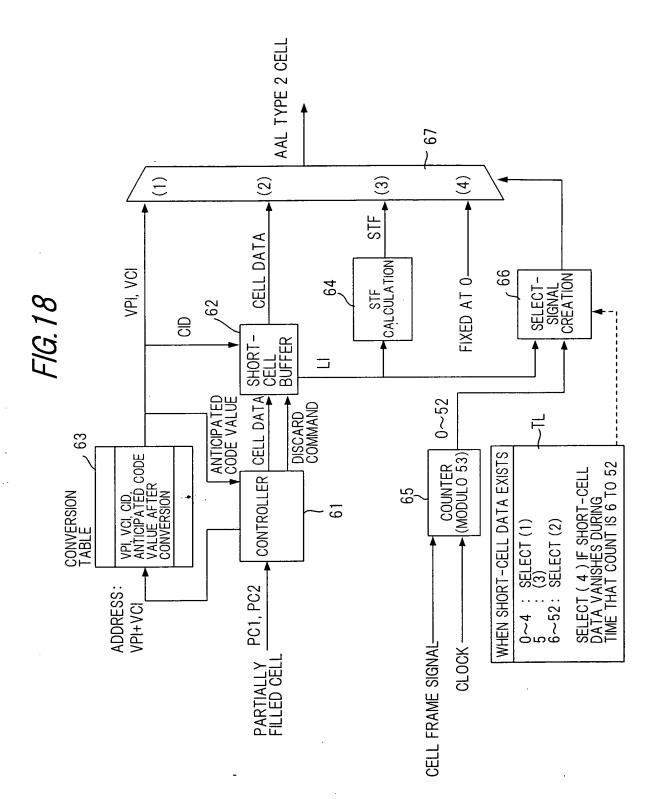
WHEN LI > 44 HOLDS (WHEN FIRST CELL IS SENT)

COUNT	SELECT SIGNAL
0~4	SELECT(1)
5~36	SELECT (2)
37~51	SELECT (4)
52	SELECT (3)

FIG. 17C

 $\begin{array}{c} \text{WHEN LI} > 44 \text{ HOLDS} \\ \text{(WHEN SECOND CELL IS SENT)} \end{array}$

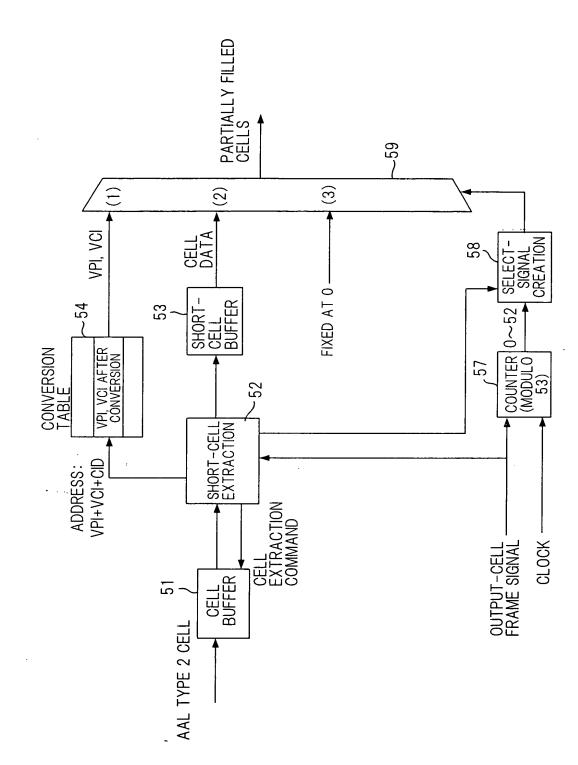
COUNT	SELECT SIGNAL
0~4 - 5 - 6	SELECT (1) SELECT (4) SELECT (5)
$ \begin{array}{c c} & 7 \\ & 8 \sim (LI - 21) \\ \hline & (LI - 21) + 1 \sim 51 \\ \hline & 52 \end{array} $	SELECT (4) SELECT (2) SELECT (4) SELECT (3)



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19/58

FIG. 19



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20/58

FIG.20A

WHEN LI < 45 HOLDS

COUNT	SELECT SIGNAL
0~4	SELECT (1)
5~(LI+8)	SELECT (2)
$(LI+9)\sim 52$	SELECT (3)

FIG.20B

WHEN LI > 44 HOLDS (WHEN FIRST CELL IS SENT)

Äet.	COUNT	SELECT SIGNAL
	0~4	SELECT (1)
	5~52	SELECT (2)

FIG.20C

$\begin{array}{c} \text{WHEN LI} > 44 \text{ HOLDS} \\ \text{(WHEN SECOND CELL IS SENT)} \end{array}$

COUNT	SELECT SIGNAL
0~4	SELECT (1)
5~(LI-40)	SELECT (2)
(LI-40)+1~51	SELECT (3)

21/58

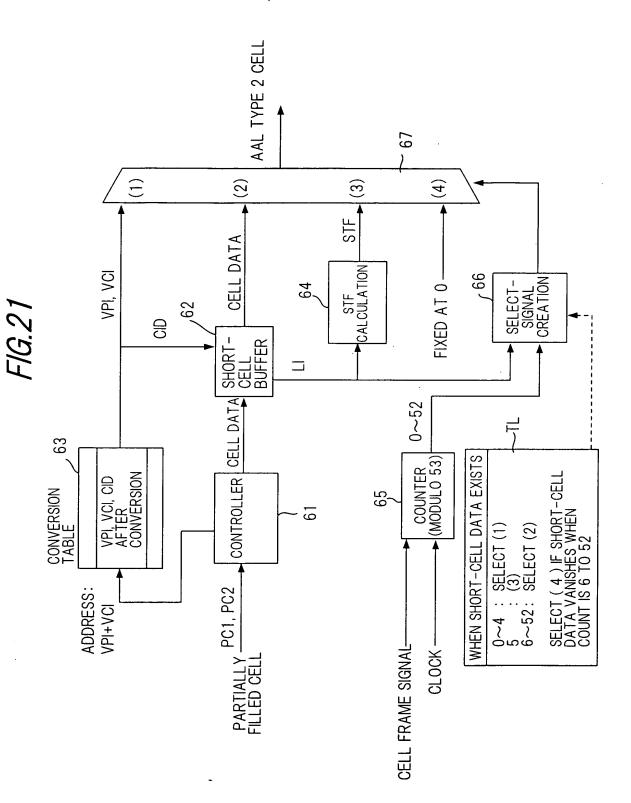
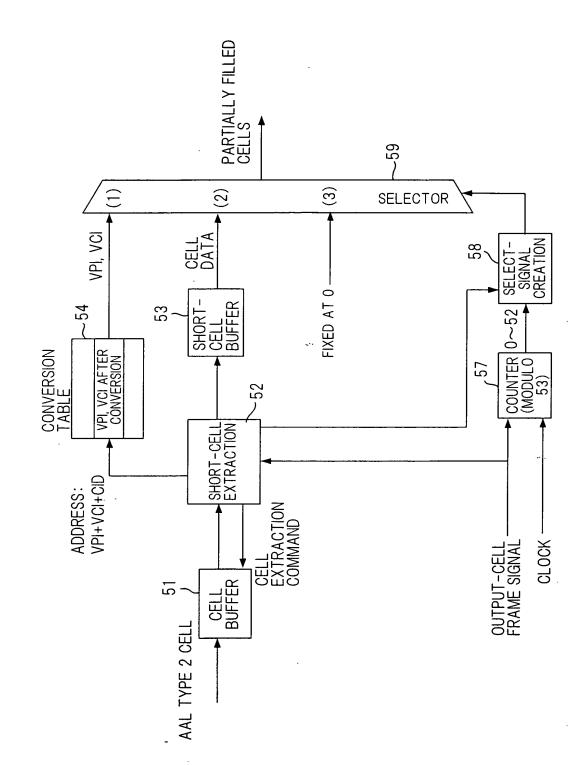


FIG.22

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FIG.23A

WHEN LI < 45 HOLDS

COUNT	SELECT SIGNAL
0~4	SELECT (1)
5~(LI+8)	SELECT (2)
(LI+9)~52	SELECT (3)

FIG.23B

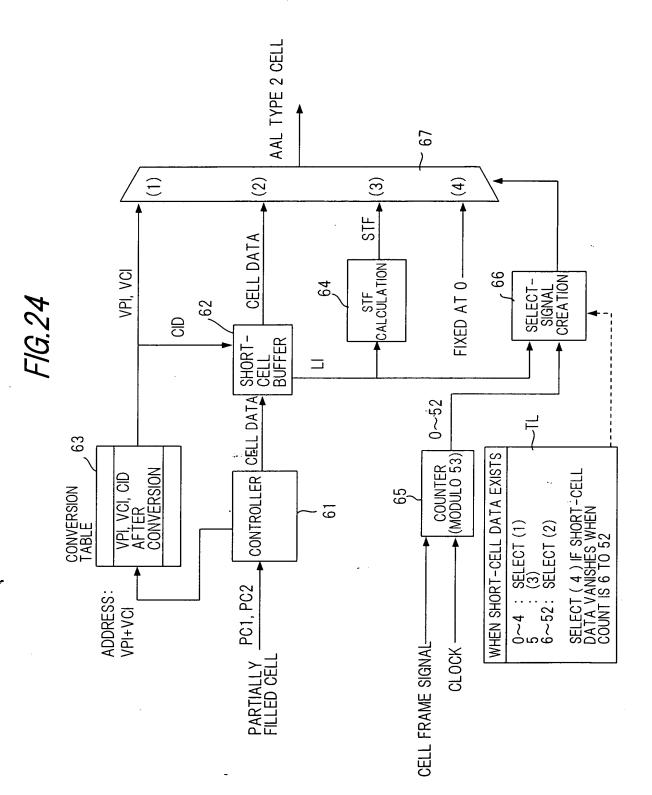
WHEN LI > 44 HOLDS (WHEN FIRST CELL IS SENT)

COUNT	SELECT SIGNAL
0~4	SELECT (1)
5~(B1+4)	SELECT (2)
(B1+5)∼52	SELECT (3)

FIG.23C

WHEN LI > 44 HOLDS (WHEN SECOND CELL IS SENT)

COUNT	SELECT SIGNAL
0~4	SELECT (1)
5~(B2+4)	SELECT (2)
(B2+5)~52	SELECT (3)



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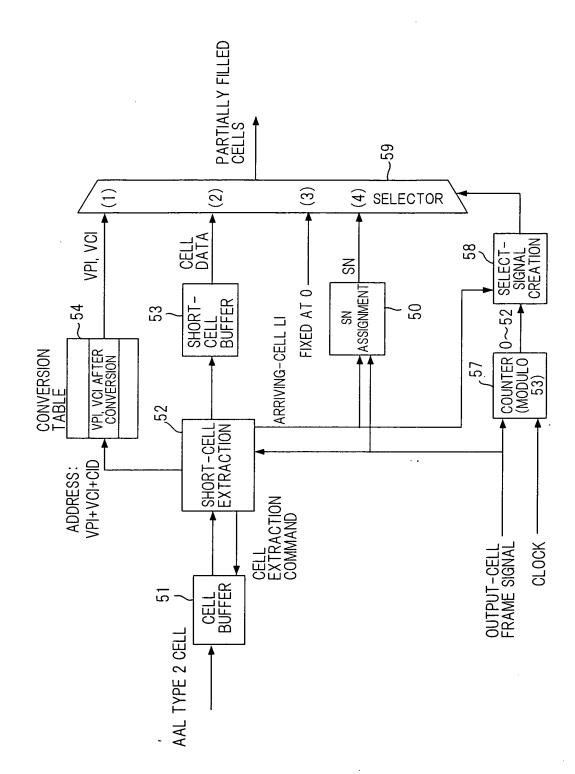


FIG.26A

WHEN LI < 45 HOLDS

COUNT	SELECT SIGNAL
0~4	SELECT (1)
5~(LI+8)	SELECT (2)
(LI+9)~52	SELECT (3)

FIG.26B

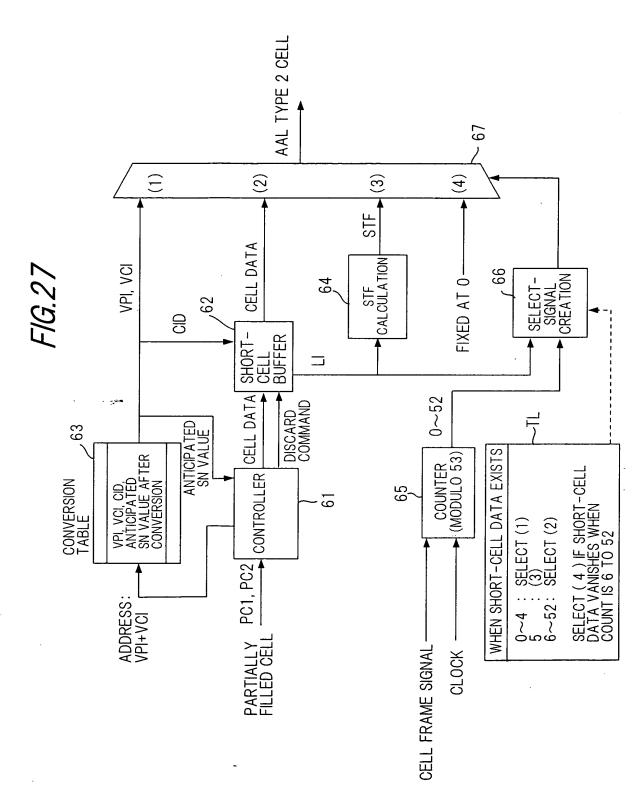
WHEN LI > 44 HOLDS (WHEN FIRST CELL IS SENT)

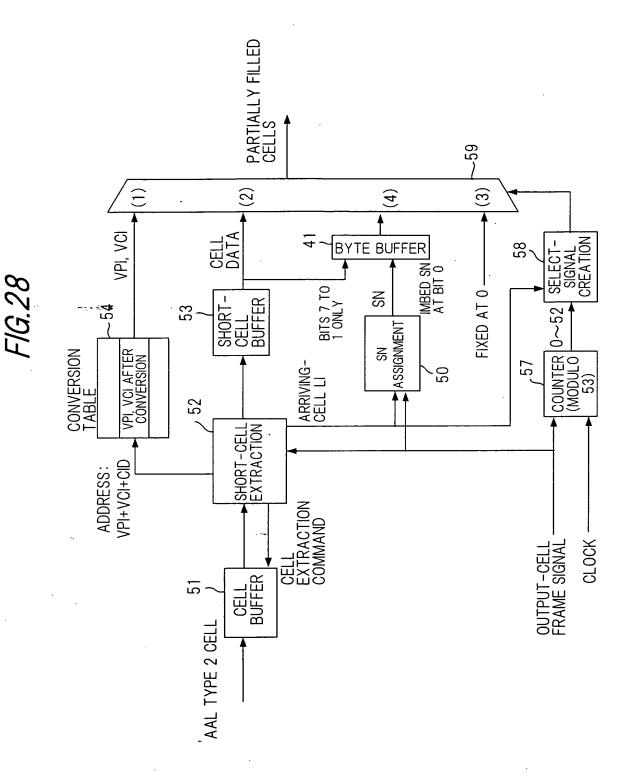
COUNT	SELECT SIGNAL
0~4	SELECT (1)
5~(B1+4)	SELECT (2)
(B1+5)∼51	SELECT (3)
52	SELECT (4)

FIG.26C

$\begin{array}{c} \text{WHEN LI} > 44 \text{ HOLDS} \\ \text{(WHEN SECOND CELL IS SENT)} \end{array}$

COUNT	SELECT SIGNAL
0~4	SELECT(1)
5~(B2+4)	SELECT (2)
(B2+5)∼51	SELECT (3)
52	SELECT (4)





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29/58

FIG.29A

WHEN LI < 45 HOLDS

COUNT	SELECT SIGNAL
0~4	SELECT (1)
5~(LI+8)	SELECT (2)
(LI+9)∼52	SELECT (3)

FIG.29B

WHEN LI > 44 HOLDS (WHEN FIRST CELL IS SENT)

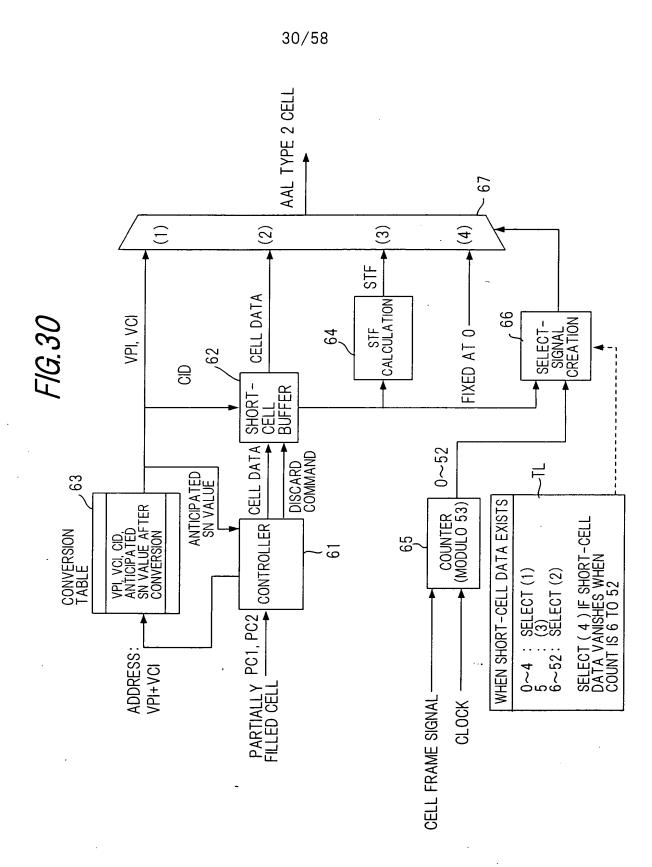
COUNT	SELECT SIGNAL
0~4	SELECT(1)
5~6	SELECT (2)
7	SELECT (4)
8~(B1+4)	SELECT (2)
(B1+5)~52	SELECT (3)

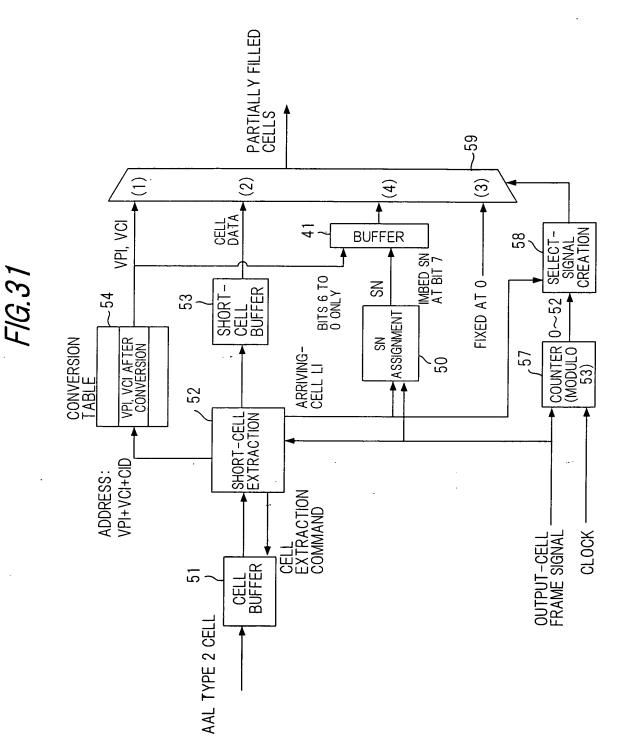
FIG.29C

 $\begin{array}{c} \text{WHEN LI} > 44 \text{ HOLDS} \\ \text{(WHEN SECOND CELL IS SENT)} \end{array}$

COUNT	SELECT SIGNAL
0~4	SELECT (1)
5~6	SELECT(2)
7	SELECT (4)
8~(B2+4)	SELECT (2)
(B2+5)∼52	SELECT (3)

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32/58

FIG.32A

WHEN LI < 45 HOLDS

COUNT	SELECT SIGNAL
0~4	SELECT (1)
5~(LI+8)	SELECT (2)
$(LI+9)\sim 52$	SELECT (3)

FIG.32B

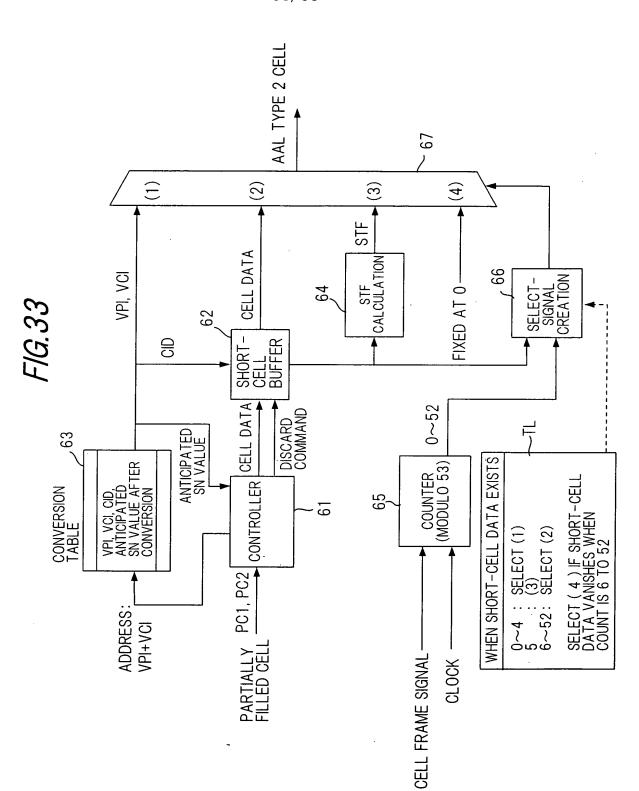
WHEN LI > 44 HOLDS (WHEN FIRST CELL IS SENT)

COUNT	SELECT SIGNAL
0	SELECT (4)
	SELECT (1)
5~(B1+4)	SELECT (2)
(B1+5)~52	SELECT (3)

FIG.32C

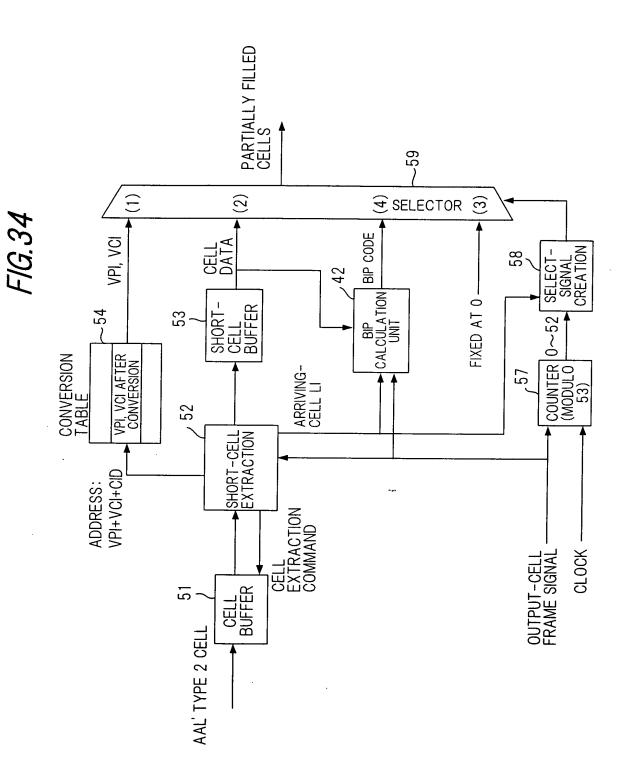
WHEN LI > 44 HOLDS (WHEN SECOND CELL IS SENT)

COUNT	SELECT SIGNAL
0	SELECT (4)
1~4	SELECT(1)
5~(B2+4)	SELECT (2)
(B2+5)~52	-



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34/58



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FIG.35A

WHEN LI < 45 HOLDS

COUNT	SELECT SIGNAL
0~4	SELECT (1)
5~(LI+8)	SELECT (2)
(LI+9)~52	SELECT (3)

FIG.35B

WHEN LI > 44 HOLDS (WHEN FIRST CELL IS SENT)

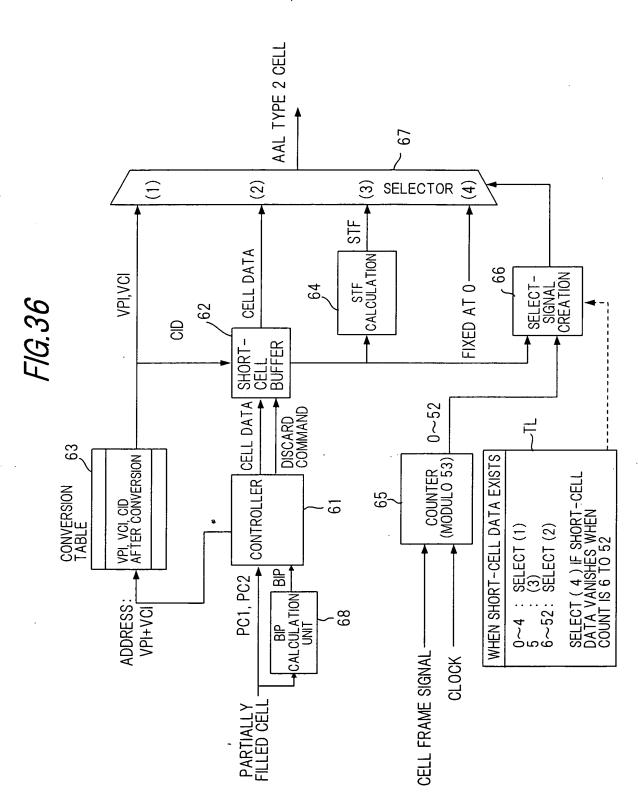
COUNT	SELECT SIGNAL
0~4	SELECT(1)
5~52	SELECT (2)

FIG.35C

WHEN LI > 44 HOLDS (WHEN SECOND CELL IS SENT)

COUNT	SELECT SIGNAL
0~4	SELECT (1)
5 _≈ (Ll−40)	SELECT (2)
(LI-40)+1~51	SELECT (3)
52	SELECT (4)

36/58



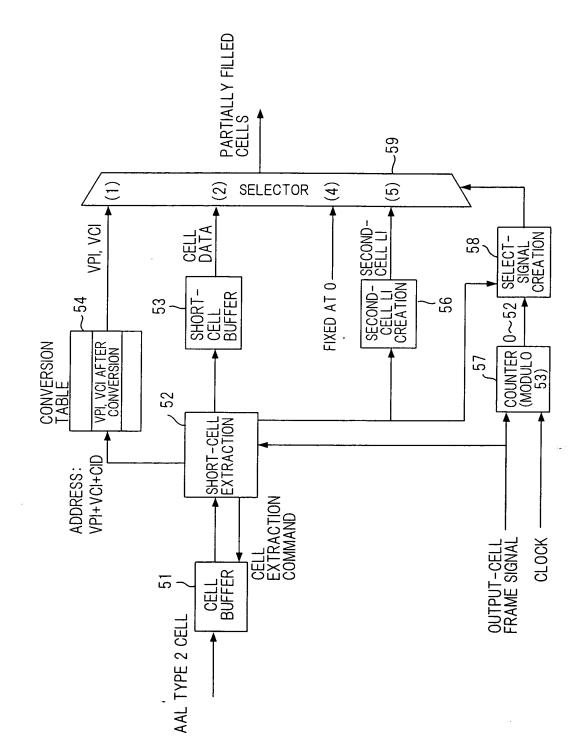


FIG.38A

WHEN LI < 45 HOLDS

COUNT	SELECT SIGNAL
0~4	SELECT (1)
5~(LI+8)	SELECT (2)
[(LI+9)~52	SELECT (4)

FIG.38B

WHEN LI > 44 HOLDS (WHEN FIRST CELL IS SENT)

COUNT	SELECT SIGNAL
0~4	SELECT (1)
<u>5~7</u> − − −	SELECT (4)
8~52	SELECT(2)

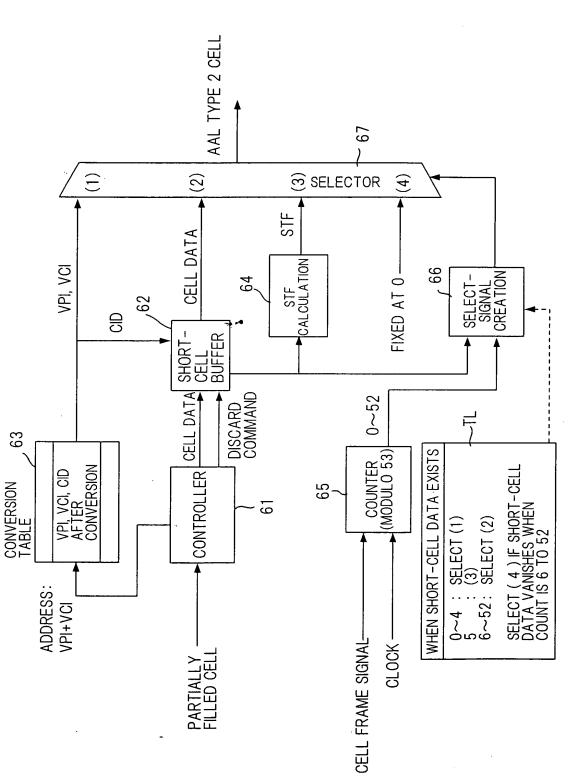
FIG.38C

WHEN LI > 44 HOLDS (WHEN SECOND CELL IS SENT)

, <u>-</u> <u>-</u>	· · · · · · · · · · · · · · · · · · ·
COUNT	SELECT SIGNAL
0~4	SELECT (1)
5	SELECT (4)
6	SELECT (5)
L7	SELECT (4)
8~(LI−37)	SELECT (2)
$(L_{1}-37)+1\sim52$	SELECT (4)

FIG.39





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40/58



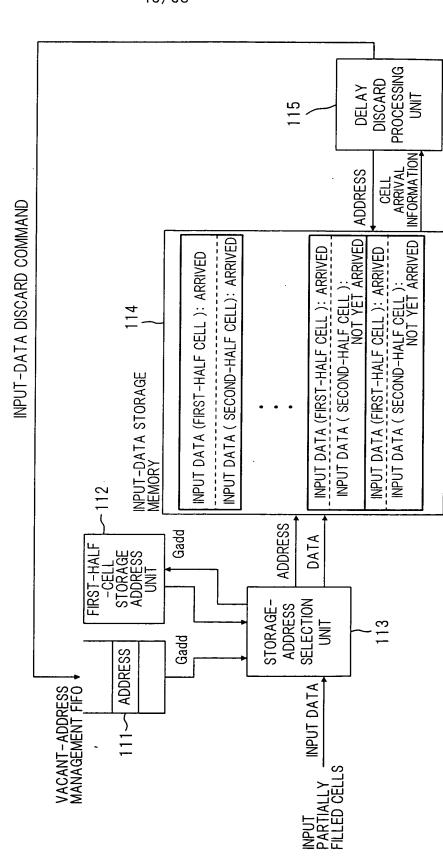
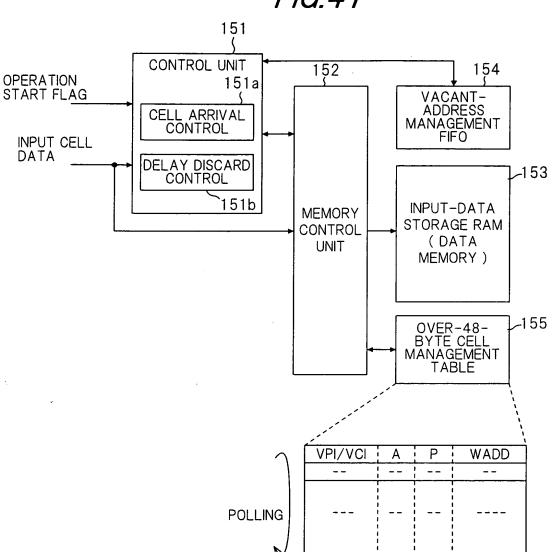
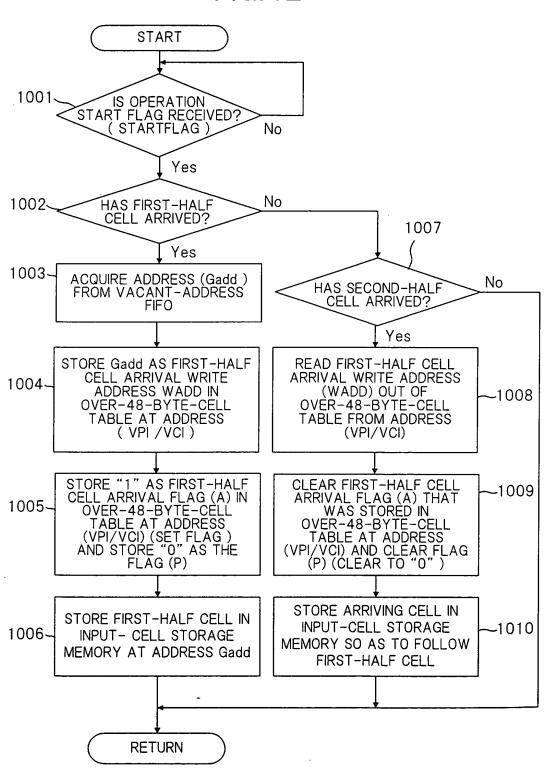


FIG.41



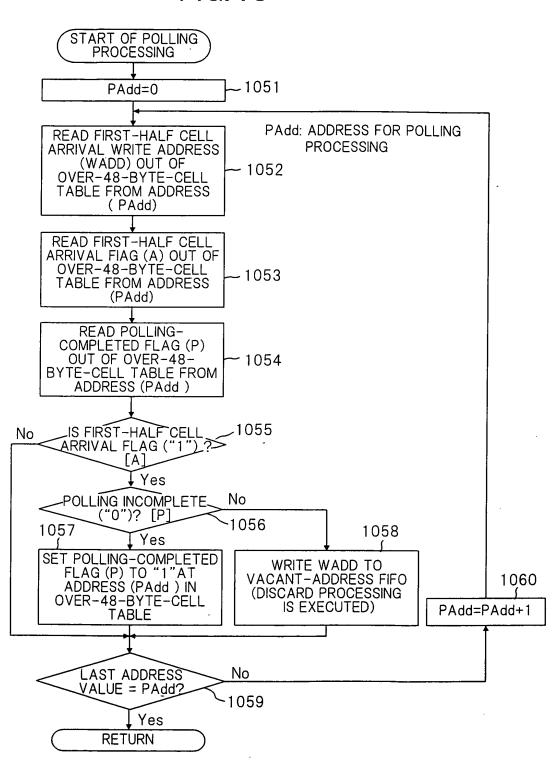
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42/58



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43/58

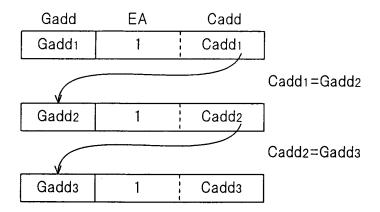


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44/58

FIG.44

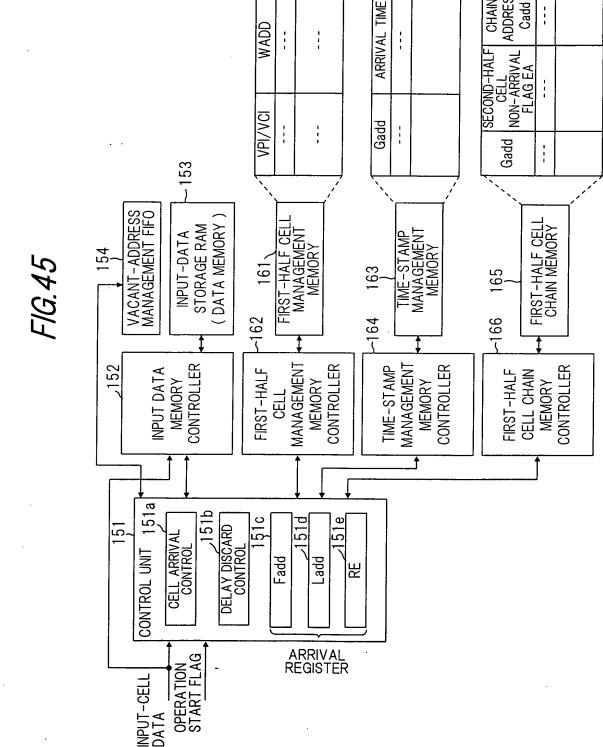
Address	Data			
	Α	Ро	WADD	INPUT CELL DATA
INPUT VPI, VCI				
	Α	Ро	WADD	INPUT CELL DATA
4				
OVER-48-BYTE- INPUT-CELL DATA ARE			INPUT-CELL DATA AREA	



WADD

ADDRESS | CHAIN

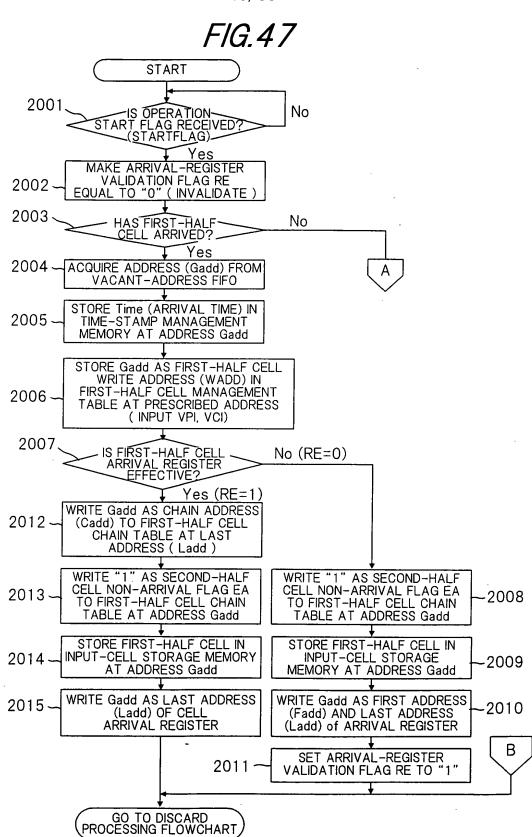
Cadd



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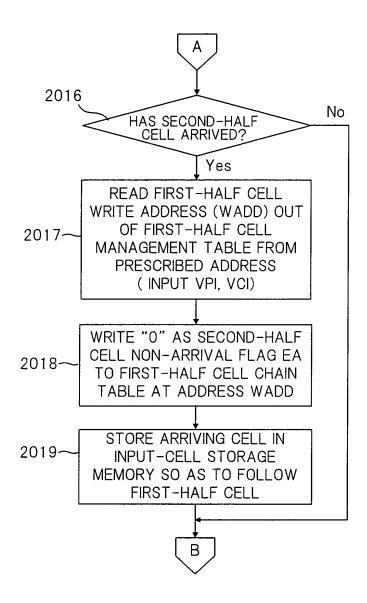
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46/58



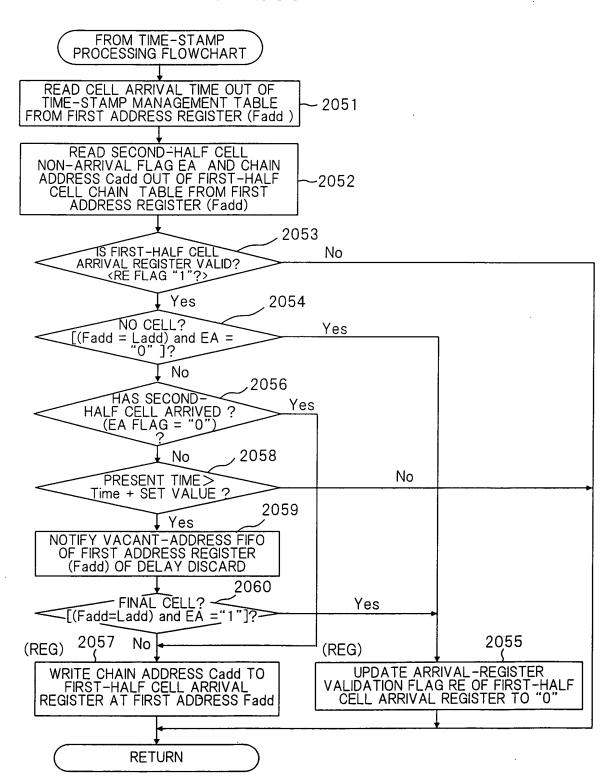
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47/58

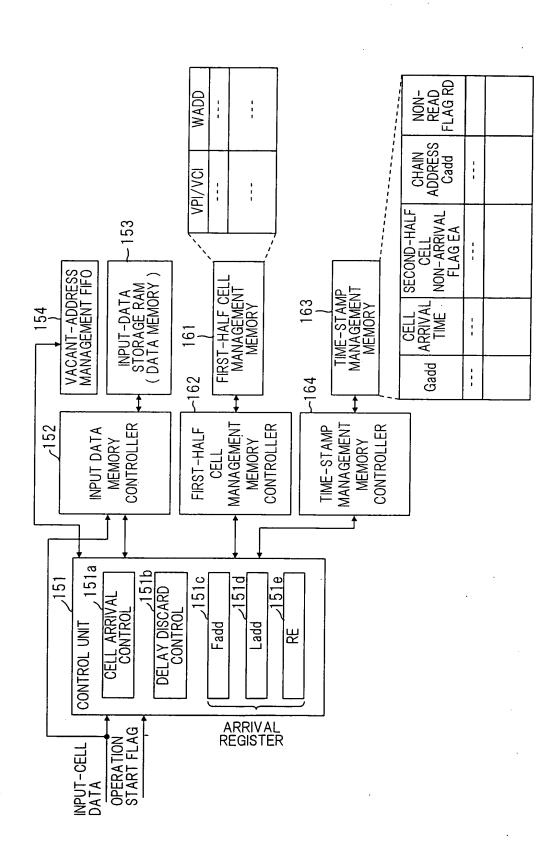


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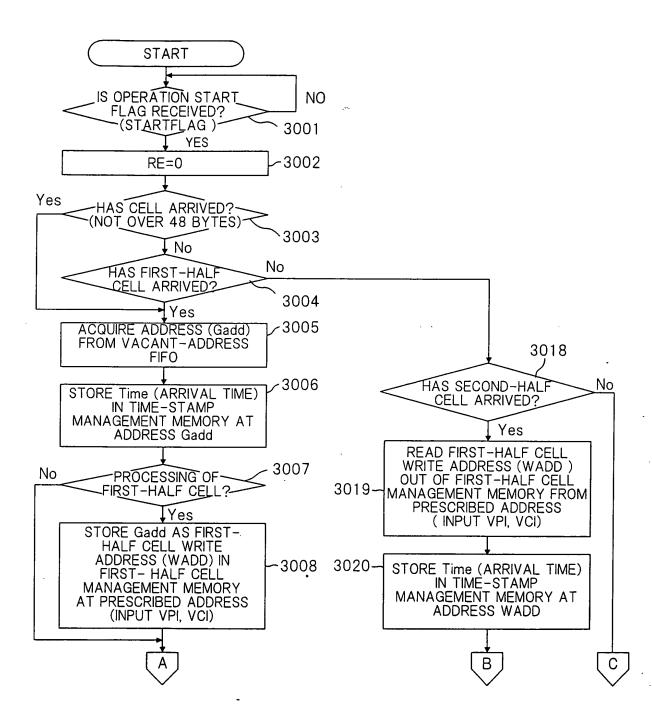
48/58





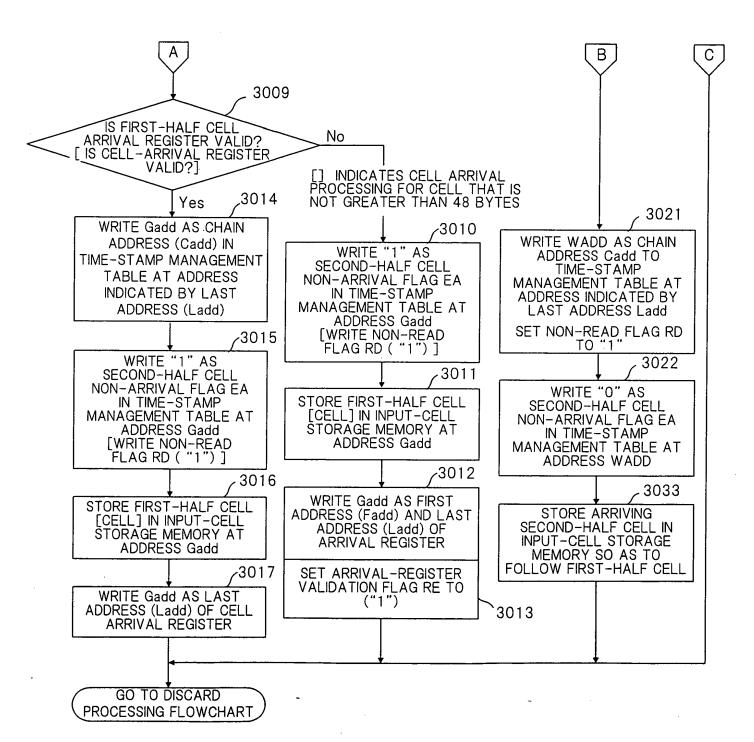


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DRAFTSMAN		



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51/58

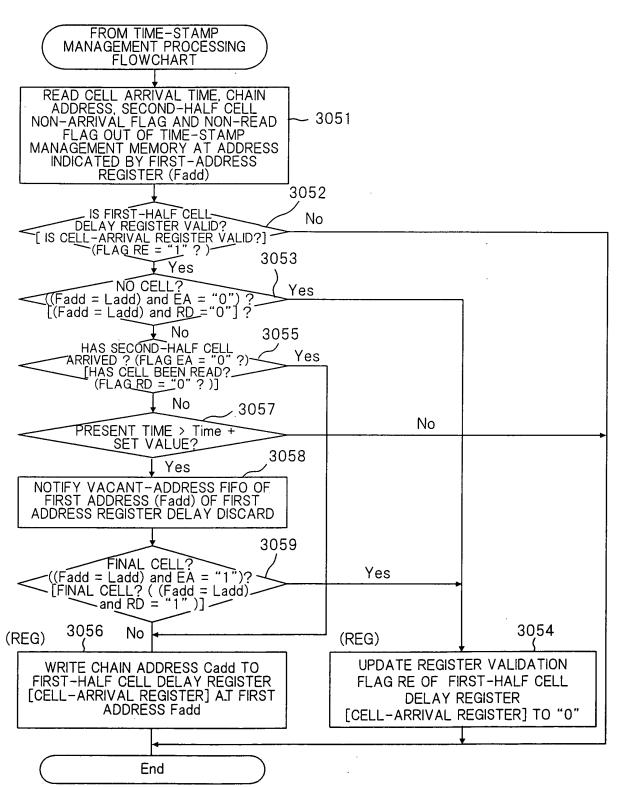


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52/58



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FIG.54 PRIOR ART

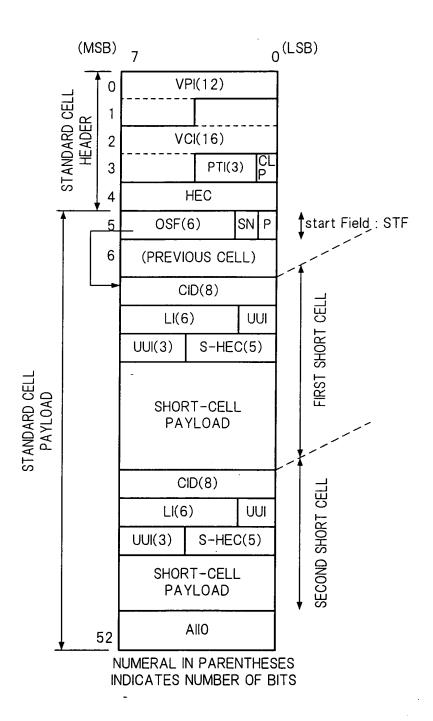
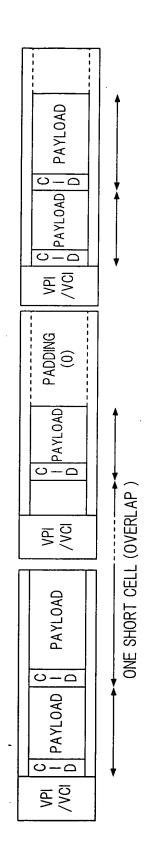


FIG.55 PRIOR ART

ABBREVIATION	NUMBER OF BITS	CONTENT	REMARKS
ld/	12	VIRTUAL PATH IDENTIFIER	
NCI	16	VIRTUAL CHANNEL IDENTIFIER	
PTI	3	PAYLOAD-TYPE IDENTIFIER	
CLP	-	CELL LOSS PRIORITY	
HEC	8	HEADER ERROR CONTROL	
OSF	9	OFFSET FIELD (POINTER TO START OF SHORT CELL) (0 - 47) OSF = 0: SHORT-CELL MAPPING IMMEDIATELY AFTER START FIELD OSF = 47: NO BREAK IN SHORT CELL WITHIN THIS CELL	OSF = 48 OR GREATER PROHIBITED
NS	-	1-BIT SEQUENCE NO. (0.1.0.1.)	MODULO 2
Ь		PARITY (ODD-NUMBER PARITY WITH RESPECT TO TOTAL OF SEVEN BITS OF StartPointer, SN)	
CID	8	SHORT-CELL CHANNEL IDENTIFIER	
	9	SHORT-CELL PAYLOAD LENGTH INDICATION (0 - 44) (0 INDICATES PAYLOAD LENGTH OF ONE BYTE)	
ınn	2	USER-USER IDENTIFICATION (HIGHER-ORDER SIDE)	
INN	3	USER-USER IDENTIFICATION (LOWER-ORDER SIDE)	
S-HEC	2	SHORT-CELL HEADER ERROR CORRECTION (GENERATED POLYNOMIAL X5 + X2 + 1)	

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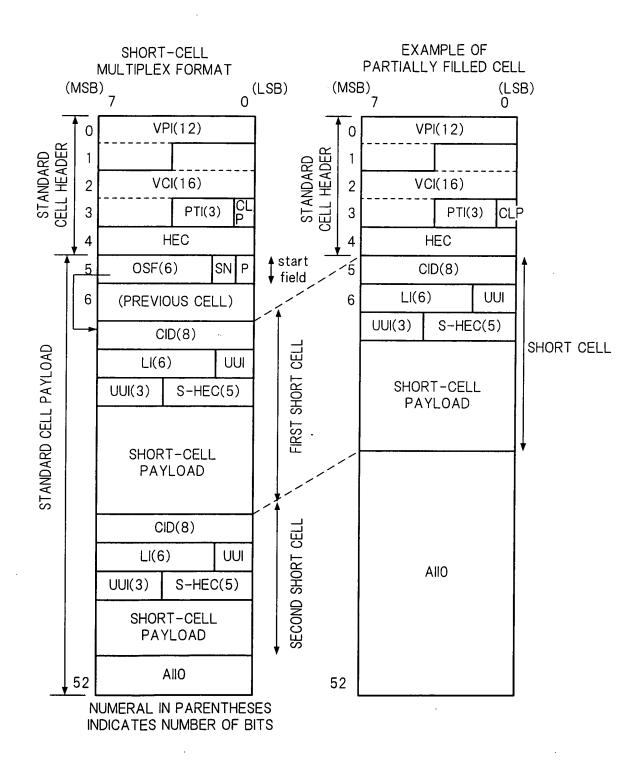




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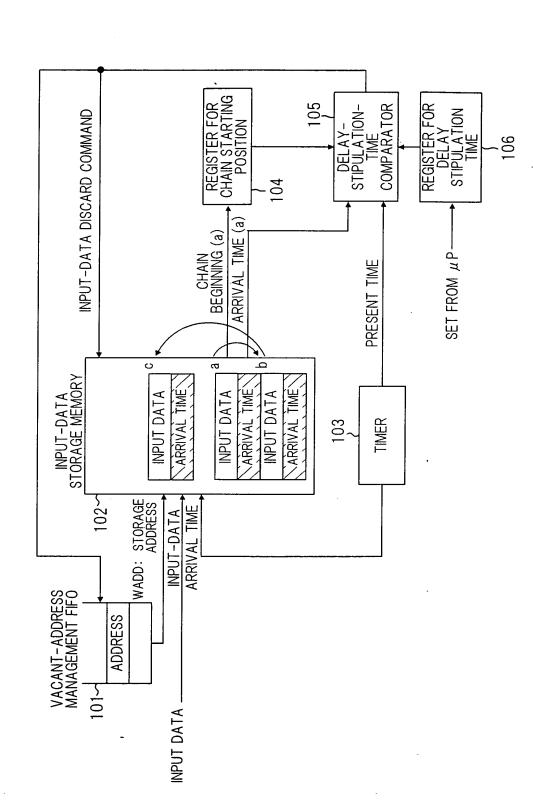
56/58

FIG.57 PRIOR ART



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	BY	CLASS	SUBCLASS	
ļ	DRAFTSMAN			Ĵ

FIG. 58 PRIOR ART



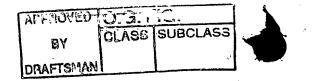




FIG.59A

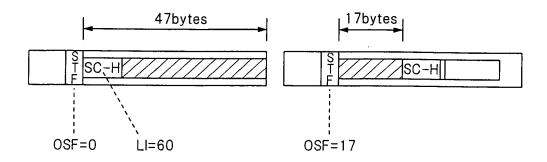


FIG.59B

